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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------------------|---------------------|------------------|
| 10/698,035 | 10/30/2003 | Yasunori Onishi | 9319S-000570 | 1179 |
| 27572 | 7590 | 06/23/2005 | | EXAMINER |
| | | HARNESS, DICKEY & PIERCE, P.L.C. | | SEMBER, THOMAS M |
| | | P.O. BOX 828 | | |
| | | BLOOMFIELD HILLS, MI 48303 | | |
| | | | ART UNIT | PAPER NUMBER |
| | | | | 2875 |

DATE MAILED: 06/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | |
|------------------------------|------------------------------|---|
| Office Action Summary | Application No. | Applicant(s) |
| | 10/698,035 | ONISHI ET AL.  |
| | Examiner Thomas M. Sember | Art Unit 2875 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 17 March 2004.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-10 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 1-10 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

| | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>10/30/03</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION***Priority***

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.
2. Applicant cannot rely upon the foreign priority papers to overcome these rejections because a translation of said papers has not been made of record in accordance with 37 CFR 1.55. See MPEP § 201.15.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5 and 7-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Choi et al. Choi et al discloses a display device comprising: a first display unit 100 having a display surface on a front surface thereof, a second display unit 200 having a display surface on a rear surface thereof, and a common illumination unit 320 interposed between the first display unit and the second display unit illuminating both the first display unit and the second display unit with light. The illumination unit includes a light-guiding member including a

first light-emitting surface opposite the first display unit and a second light-emitting surface opposite the second display unit, and wherein a transreflector 330 is interposed between the second light-emitting surface of the light-guiding member and the second display unit. Regarding claims 2 and 3, see figures 11 and 15, which shows a smaller second display unit.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5 and 9-10 are rejected under 35 U.S.C. 102(e) as being anticipated by (Ozawa and Higashiyama). (Ozawa and Higashiyama) discloses a display device comprising: a first display unit having a display surface on a front surface thereof, a second display unit having a display surface on a rear surface thereof, and a common illumination unit interposed between the first display unit and the second display unit illuminating both the first display unit and the second display unit with light. The illumination unit includes a light-guiding member including a first light-emitting surface opposite the first display unit and a second light-emitting surface opposite the second display unit, and wherein a

transflector is interposed between the second light-emitting surface of the light-guiding member and the second display unit.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over (Ozawa, Choi et al and Higashiyama) in view of Sone. (Ozawa, Choi et al and Higashiyama) discloses the claimed invention except for the teaching that the transflector has a plurality of fine light transmitting apertures dispersed therein. Sone teaches a transflector made with a plurality of fine light transmitting apertures dispersed therein. It would have been obvious to one skilled in the art at the time the invention was made to modify the transflectors of (Ozawa, Choi et al and Higashiyama) to include a plurality of fine light transmitting apertures dispersed therein as taught by Sone in order to efficiently reflect and transmit light.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

1.) Simazaki 2001/0049293

Shimazaki discloses a display device comprising: a first display unit 206 having a display surface on a front surface thereof, a second display unit 221 having a display surface on a rear surface thereof, and a common illumination unit (LCD 234) interposed between the first display unit and the second display unit illuminating both the first display unit and the second display unit with light, However, Shimazaki fails to teach or fairly suggest "the illumination unit includes a light-guiding member including a first light-emitting surface opposite the first display unit and a second light-emitting surface opposite the second display unit, and wherein a transreflector is interposed between the second light-emitting surface of the light-guiding member and the second display unit."

2.) JP2001-051251

JP2001-051251 discloses a display device comprising: a first display unit 40 having a display surface on a front surface thereof, a second display unit 42 having a display surface on a rear surface thereof, and a common illumination unit interposed between the first display unit and the second display unit illuminating both the first display unit and the second display unit with light, However, JP2001-51251 fails to teach or fairly suggest "the illumination unit includes a light-guiding member including a first light-emitting surface opposite the first display unit and a second light-emitting surface opposite the second display unit, and wherein a transreflector is interposed between the second light-

emitting surface of the light-guiding member and the second display unit.”.

Although the polarizing reflector 36 and 38 act similar to a transreflector, there is no teaching of a light guide member and illumination unit as claimed by applicant.

3.) Smith et al

Smith et al discloses a display device comprising: a first display unit 74 having a display surface on a front surface thereof, a second display unit 72 having a display surface on a rear surface thereof, and a common illumination unit interposed between the first display unit and the second display unit illuminating both the first display unit and the second display unit with light. However, Smith et al fails to teach or fairly suggest “the illumination unit includes a light-guiding member including a first light-emitting surface opposite the first display unit and a second light-emitting surface opposite the second display unit, and wherein a transreflector is interposed between the second light-emitting surface of the light-guiding member and the second display unit.”

4.) Cascini, Nagakubo et al and Suzuki et al disclose display devices similar to applicant's invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas M. Sember whose telephone number is 571-272-2381. The examiner can normally be reached on M-F 8 A.M- 5.30 p.m. first Fridays off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on 571-272-2378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Thomas M Sember
Primary Examiner
Art Unit 2875
